

9500031

# AHIER CONTRIBED STRANTES OF ANY LERRICAL

TO ALL TO WHOM THESE; PRESENTS; SHALL, COME;;

Pioneer Hi-Bred International, Inc.

There has been presented to the

#### Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED, PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE OVE PURPOSES, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT DED BY THE PLANT VARIETY PROTECTION ACT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

SOYBEAN

'9204'

In Testimenn Mixerest, I have hereunto set my hand and caused the seal of the Plant Hariety Arctical Office to be affixed at the City of Washington, D.C. this thirtieth day of January in the year of our Lord one thousand nine hundred and ninety-six.

Allest

Marsha A. Sturke

Plant Variety Protection Office Agricultural Marketing Service lilomon y of Agriculture

U.S. DEPARTMENT O	F AGRICULTURE		Application is required in order to
AGRICULTURAL MAF SCIENCE D	RKETING SERVICE		determine if a plant variety protection
	S ON REYERSE)	CTION CERTIFICATE	certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).
<ol> <li>NAME OF APPLICANT(S) (as it is to appear on the Certificate)</li> </ol>		2. TEMPORARY DESIGNATION	3 VARIETY NAME
Pioneer Hi-Bred Internationa	l, Inc.	OR EXPERIMENTAL NO.	9204
4. ADDRESS (street and no. or R.F.D. no., city, state, and ZIP)		5. PHONE (include area code)	FOR OFFICIAL USE ONLY
700 Capital Square		·	PVPO NUMBER
400 Locust St. Des Moines, IA 50309	•	/=	9500031
Des Moines, IA 50309		(515)270-3582	Date
			NOVEMBER 8, 1994
6. GENUS AND SPECIES NAME	7 FAMILY NAME (E	Potanical)	- I line
Glycine max	Legumino	•	G A.M. D P.M.
8. CROP KIND NAME (Common Name)		<u> </u>	F Filing and Examination Fee:
		9. DATE OF DETERMINATION	[ 2,325, <u>00</u>
Soybean	•	September 1989	Oate R
<ol> <li>IF THE APPLICANT NAMED IS NOT A "PERSON," GIVE FORM association, etc.)</li> </ol>	OF ORGANIZATIO	N (Corporation, partnership,	© OCTOBER 27, 1994
Corporation	•		E Certificate Fee:
11. IF INCORPORATED, GIVE STATE OF INCORPORATION		12. DATE OF INCORPORATION	300.00
			D Uate
13 NAME AND ADDRESS OF ADDITIONAL DEPOSITION OF		1926	Dec. 27, 1895
13. NAME AND ADDRESS OF APPLICANT REPRESENTATIVE(S). IF	ANY, TO SERVE I	N THIS APPLICATION AND RECEIVE AL	L PAPERS
John Grace	700	Roth (copy)	
7300 NW 62nd Ave. PO Box 1004	Des	Capital square, 40 Moines, IA 50309	o rocast pt.
Johnston, IA 50131-1004	, – – –	110211007 111 30307	·
14. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMIT		PHONE (include area code):	
a. 区 Exhibit A, Origin and Breeding History of the Variety b. 区 Exhibit B, Novelty Statement c. 区 Exhibit C, Objective Description of Variety d. 区 Exhibit D, Additional Description of Variety e. 区 Exhibit E, Statement of the Basis of Applicant's Owne f. 区 Seed Sample (2,500 viable untreated seeds). Date Se g. 任 Filing and Examination Fee (\$2,325) made payable to	ership eed Samole mailed	lo Plant Varioty Davis vis 1	0/28/94
15. DOES THE APPLICANT(S) SPECIFY THAT SEED OF THIS VARIE  Plant Variety Protection Act)	TY BE SOLD BY V	ARIETY NAME ONLY AS A CLASS OF C	ERTIFIED SEED? (See section 83(a) of the
16. DOES THE APPLICANT(S) SPECIFY THAT THIS VARIETY BE			
LIMITED AS TO NUMBER OF GENERATIONS?		_	PRODUCTION BEYOND BREEDER SEED?
18. DID THE APPLICANT(S) PREVIOUSLY FILE FOR PROTECTION (	i OF THE MACHETINE	FOUNDATION REGISTI	ERED CERTIFIED
Plant Variety Protection		nt Act. Give date.	
NO		·	
19. HAS THE VARIETY BEEN RELEASED, USED, OFFERED FOR SA  YES (If "YES," GIVE NAMES OF COUNTRIES AND DATE: NO	NLE, OR MARKETEI S)	D IN THE U.S. OR OTHER COUNTRIES?	
<ol> <li>The applicant(s) declare(s) that a viable sample of basic seeds of such regulations as may be applicable.</li> </ol>	this variety will be	lurnished with the application and will be	replenished upon request in accordance with
The undersigned applicant(s) is (are) the owner(s) of this sexually in section 41, and is entitled to protection under the provisions of	reproduced novel pl	lant variety, and believe(s) that the variet	y is distinct, uniform, and stable as required
Applicant(s) is (are) informed that false representation herein can	soundin 4E or tile 1	ioni vallety Fiotechan Act.	`.
SIGNATURE OF APPLICANT [Owner(s)]	<del></del>		
114	['	CAPACITY OR TITLE	DATE
N. flo hace, THE	5	Soybean Research Coo	ordinator 10/21/94
SIGNATURE OF APPLICANT (Owner(s))		CAPACITY OR TITLE	DATE
D-470			

Attachment: 9204 Soybean (March, 1994)

Attachment: 9204 Soybean (March, 1994)

Exhibit A: Variety 9204 evolved from a cross of Pioneer experimental 1901C45 with an F1 plant from Pioneer population number 5804. Pioneer cross 5804 evolved from a mating of Pioneer experimental 3426F07 with an F1 plant from Pioneer population number 5784. Pioneer cross 5784 evolved from a mating of Century 84 with an F1 plant from Pioneer population number 5663. Pioneer cross

5663 evolved from a mating of PRX325260 X PRX107132. Pioneer experimental 3426F07 evolved from a cross of GT1380 X A3127. PRX lines were developed by Curt Athow for Multi-race resistance

to Phytophthora megasperma var. sojae.

It is an F5-derived variety which was advanced to the F5 generation by modified single-seed descent. The F6 progeny row of 9204 was grown in Iowa during the summer of 1989. Subsequently, 9204 has undergone four years of extensive testing and purification and has been observed by the breeder to be uniform and stable for all plant traits from generation to generation, with no evidence of variants.

The purification block was grown during 1992 and 101 sublines were bulked for increase. 8 acres of 9204 (breeders seed) were grown in Chile during winter season 1992. 210 acres of parent seedstock (foundation seed equivalent) were grown in 1993.

Exhibit B: Variety 9204 is most similar to variety AP2040. Both varieties have purple flowers, tawny pubescence and yellow seeds with black hila. However, AP2040 is susceptible to race 1 of Phytophthora megasperma var. sojae whereas 9204 is resistant to race 1.

EXHIBIT C

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
LIVESTOCK, MEAT, GRAIN & SEED DIVISION
PLANT VARIETY PROTECTION OFFICE
BELTSVILLE, MARYLAND 20705

## **OBJECTIVE DESCRIPTION OF VARIETY**

SOYBEAN (Glycine max L.)

NAME OF APPLICANT(S) TEMPORARY DESIGNATION	ON VARIETY NAME
Pioneer Hi-Bred International, Inc.	9204
ADDRESS (Street and No., or R.F.D. No., City, State, and Zip Code)	
700 Capital Square	FOR OFFICIAL USE ONLY
400 Locust St.	9500031
Choose the appropriate response which characterizes the variety in the features describin your answer is fewer than the number of boxes provided, place a zero in the first box Starred characters are considered fundamental to an adequate soybean variety describing when information is available.  1. SEED SHAPE:	x when number is 9 or less (e.g., 0 9)
	ned (L/W ratio > 1.2; L/T ratio = < 1.2)
	ed (L/T ratio > 1.2; T/W > 1.2)
2. SEED COAT COLOR: (Mature Seed)	
1 1 = Yellow 2 = Green 3 = Brown 4 = Black 5 = Oth	ner (Specify)
3. SEED COAT LUSTER: (Mature Hand Shelled Seed)	
1 = Ouil ('Corsoy 79'; 'Braxton') 2 = Shiny ('Nebsoy'; 'Gasoy 17')	
4. SEED SIZE: (Mature Seed)	
1 5 Grams per 100 seeds	
5. HILUM COLOR: (Mature Seed)	
6 1 = 8uff 2 = Yellow 3 = Brown 4 = Gray 5 = Imperfect	Black 6 = Black 7 = Other (Specify)
6. COTYLEDON COLOR: (Mature Seed)	
1 1 = Yellow 2 = Green	
7. SEED PROTEIN PEROXIDASE ACTIVITY:	
1 1 = Low 2 = High	
8. SEED PROTEIN ELECTROPHORETIC BAND:	· · · · · · · · · · · · · · · · · · ·
1 = Type A (SP1 <sup>a</sup> ) 2 = Type B (SP1 <sup>b</sup> )	
9. HYPOCOTYL COLOR:	manana arang a
1 = Green only ('Evans'; 'Davis') 2 = Green with bronze band below cotyledon 3 = Light Purple below cotyledons ('Beeson'; 'Pickett 71') 4 = Dark Purple extending to unifoliate leaves ('Hodgson'; 'Coker Hampton 266A')	ns ('Woodworth'; 'Tracy')
0. LEAFLET SHAPE:	
3 1 = Lanceolate 2 = Oval 3 = Ovate 4 = Other (Specify)	

_					<u> </u>
	1. LEAF	LET SIZE:  1 = Small ('Amsoy 71'; 'A5312')  2 = Medium ('Corsoy 79'; 'Gasoy 17')  3 = Large ('Crawford'; 'Tracy')			•
1 -1	2. LEAF	COLOR:			
	2	1 = Light Green ('Weber'; 'York') 2 = Medium Green ('Corsoy 79'; 'Braxt') 3 = Dark Green ('Gnome'; 'Tracy')	ton')		
_					
<b>★</b> 13	3 FLOW	ER COLOR:  1 = White 2 = Purple 3 = White with purple throat			:
					·
- A 14	2	1 = Tan 2 = Brown 3 = Black			
<b>★</b> 15	. PLANT	PUBESCENCE COLOR:			
	2	1 = Gray 2 = Brown (Tawny)			
16	. PLANT	TYPES:			
	1	1 = Slender ('Essex'; 'Amsoy 71') 2 = Intermediate ('Amcor'; 'Braxton') 3 = Bushy ('Gnome'; 'Govan')			
<b>★</b> 17.	PLANT	HABIT:		· <del></del>	
	3	1 = Determinate ('Gnome'; 'Braxton') 2 = Semi-Determinate ('Will') 3 = Indeterminate ('Nebsoy'; 'Improved Pelican')			•
★ 18.	MATUR	RITY GROUP:			
	0 5	1 = 000	7 = IV	8 = V	•
19.	DISEAS	E REACTION: (Enter 0 = Not Tested; 1 = Susceptible; 2 = Resistant)	· .		1 7 7
	BACTI	ERIAL DISEASES:			
×		Bacteriai Pustule (Xanthomonas phaseoli var. sojensis)	-		
*	1	Bacterial Blight (Pseudomonas glycines)			
		Wildfire (Pseudomonas tabaci)			
<b>*</b>	تــا	Triulile (Fseudomonas (apaci)			
	FUNGA	L DISEASES:			
*	1	Brown Spot (Septoria glycines)			
	_				
*	0	Frogeye Leaf Spot (Carcospora sojina)  Race 1	0 Other	(Specify)	
	0	Target Spot (Corynespora cassiicola)	<del></del>	<u> </u>	<del> </del>
		Downy Mildew (Peronospora trifoliorum var. manshurica)	٠.		
	0	Powdery Mildew (Microsphaera diffusa)			
*	=	Brown Stem Rot (Caphalosporium gregatum)	·		
		Pro = 0 - 1 - 101 - 1			

19.	DISEA	SE REACTIO	N: (Enter 0 = Not	Fested; 1 = Susceptible; 2	= Resistant) (Continued)		
	FUN	IGAL DISEAS	SES: (Continued)		8		
*	1	Pod and Ste	em Blight <i>(Diaporth</i> e	phaseolorum var; sojae)			
	0	Purple Seed	Stain / Cercospora k	ikuchii)			
	1	Rhizoctonia	a Root Rot (Rhizact	onia solani)			•
		Phytophtho	ra Rot ( <i>Phytophtho</i>	ra megasperma var. sojae)			
*	2	Race 1	2 Race 2	1 Race 3 1	Race 4 1 Race 5	Race 6	1 Race 7
	1	Race 8	1 Race 9	2 Other (Specify)	10, 13, 17		
	VIRA	L DISEASES	3:		· ·		
	1	Bud Slight (	Tobacco Ringspot V	(irus)			
	1	Yellow Mosa	aic (Bean Yellow Mo	saic Virus)		•	
*	1	Cowpea Mos	aic (Cowpea Chloro	tic Virus)			
	1	Pod Mottle (	Bean Pod Mottle Vi	rus)		•	·
*	1	Seed Mottle	(Soybean Mosaic Vi	rus)		:	
	NEMA	ATODE DISE.	ASES:				
	•	Soybean Cys	t Nematode (Hetero	dera glycines)		F	•
*	0	Race 1	O Race 2	1 Race 3 0	Race 4 Other	(Specify)	
•	0	Lance Nemat	ode (Hopiciaimus C	olombus)			
*	0	Southern Roc	ot Knot Nematode /	Meloidogyne incognita)			
*	0	Northern Roc	ot Knot Nematoda (	Meloidogyne Hapla)			
		Peanut Root	Knot Nematode <i>(Me</i>	loidogyne areneria)			
			matode (Rotylenchu		. •	·	
			. *	M (Specify):			
· i				m (Specify).			
20. P	HYSIOL	.OGICAL RE	SPONSES: (Enter (	= Not Tested; 1 = Susce	ptible; 2 = Resistant)		<del></del>
*	1	Iron Chlorosis	on Calcareous Soil				
		Other <i>(Specif</i> )	<i>(</i> )				
21. IN	ISECT I	REACTION:	(Enter 0 = Not Test	ed; 1 = Susceptible; 2 = F	esistanti		· · · · · · · · · · · · · · · · · · ·
			Beetle (Epilachna v.	* 1			•
. [	0	•	opper (Empoasca fa				
22. IN				SELY RESEMBLES THA	T CHRANTER		<u></u>
	CHARA			OF VARIETY		T	==.
	nt Shap		AB204		CHARACTER Seed Coat Luster	AP2040	FVARIETY
Lea	if Shape		KENWO	······································	Seed Coat Editor	AP2040	
Lea	f Color		AP204		Seed Shape	KENWOOD	
Lea	f Size		AP204	10	Seedling Pigmentation	AP2040	
					•		

## 23. GIVE DATA FOR SUBMITTED AND SIMILAR STANDARD VARIETY: Paired Comparison Data

VARIETY	NO. OF DAYS	PLANT LODGING	CM PLANT	LEAFL	ET SIZE	SEED CON	ITENT	SEED SIZE G/100	NO. SEEDS/
·	MATURITY	SCORE	HEIGHT	CM Width	CM Langth	% Protein	% Oil	SEEDS	POD
9204 Submitted	115	1.	58	·		40.3	18.7	12	
AP2040 Name of Similar Variety	116	1.5	60			41.0	18.3	12	

## PUBLICATIONS USEFUL AS REFERENCE AIDS FOR COMPLETING THIS FORM:

- 1. Caldwell, B.E., ed. 1973. Soybeans: Improvement, Production, and Uses. Amer. Soc. Agron. Monograph No. 16.
- 2. Buttery, B.R. and R.I. Buzzell. 1968. Peroxidase activity in seeds of soybean varieties. Crop Sci., 8: 722-725.
- 3. Hymowitz, T. 1973. Electrophoretic analysis of SBTI-A<sub>2</sub> in the USDA soybean germplasm collection. Crop Sci., 13: 420-421.
- 4. Payne, R.C. and L.F. Morris. 1976. Differentiation of soybean cultivars by seedling pigmentation patterns. J. Seed Technol. 1: 1-19.

#### Exhibit D:

In Exhibit C we have identified 9204 as susceptible to bacterial blight, brown spot, pod and stem blight, rhizoctonia root rot, bud blight, yellow mosaic, cowpea mosaic, pod mottle, and seed mottle. This does not mean that we consider 9204 to be worse than other varieties of similar maturity in reaction to these challenges. Rather, we do not consider 9204 to be immune to them. Therefore, we have chosen to be conservative and have identified 9204 as "susceptible".

Variety 9204 is an early group II variety. If group II maturities are divided into tenths, the relative maturity of 9204 is 2.0.

Isozyme information for 9204.

ACO2 ACO3 ACO4 ACP DIA ENP IDH1 IDH2 MDH MPI PGM PHI 2 1 1 A B A 1 1 B A 1 1

#### Exhibit E.

Variety '9204' was originated and developed by plant breeders from whom, by agreement, Pioneer Hi-Bred International has obtained exclusive rights to protect and market variety '9204'. No rights to such invention, discovery, or development are retained by the plant breeders or by any other party.



Agricultural Marketing Service Science Division Plant Variety Protection Office NAL Building, Room 500 10301 Baltimore Blvd. Beltsville, MD 20705-2351

October 23, 1995

Dr. John Grace
Pioneer High-Bred International
7300 NW 62nd Avenue
PO Box 1004
Johnston, Iowa 50131-1004

Dear Dr. Grace:

SUBJECT: PVP Application No. 9500031, SOYBEAN, '9204': Exhibit E, Statement of the Basis of the Applicant's Ownership

nau

Before final recommendation for issuance can be made for '9204', certain information needs to be supplied regarding the statement of the basis for ownership. The rights of an applicant to a variety, for plant variety protection purposes, are derived from the original breeder. It is thus necessary to determine the rights that original breeder would have had (or has) under the Plant Variety Protection Act had he or she desired to apply for plant variety protection.

Please supply responses to the following questions:

Is t	the applicant the original breeder <sup>1</sup> ?	Yes_X_	No
If 1	no, please answer the following:		
a.	If original rights to variety were owned by individ	ual(s):	
	Is (are) the original breeder(s) a U.S. national(s)?	Yes	No
lf r	no, give country		
<b>b.</b>	If original rights to variety were owned by compar	ny:	
	Is the original breeder a U.S. based company?	Yes	No

The requested information must be received in the Plant Variety Protection Office on or before **November 24, 1995**, or the application will be deemed abandoned. A request for an extension

Original breeder may be individual company who directed final breeding. See PVPA §41(a)(2) for definition.

of time to supply the information may be made on or before the deadline specified above. Such a request must specify the amount of time desired, provide an explanation of why



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